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NOTICE OF ALLOWANCE AND FEE(S) DUE

24113

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MINNEAPOLIS, MN 55402-2100

12/08/2008

PATTERSON, THUENTE, SKAAR & CHRISTENSEN, P.A. 80 SOUTH 8TH STREET

EXAMINER LAWRENCE JR, FRANK M ART UNIT PAPER NUMBER

1797

DATE MAILED: 12/08/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,315	07/14/2006	Yasunari Arai	2418.96US01	2568

TITLE OF INVENTION: GAS-REMOVING DEVICES AND AIR SUPPLY SYSTEMS HAVING THE GAS-REMOVING DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

NSTRUCTIONS: This fappropriate. All further condicated unless corrected maintenance fee notifications.	orrespondence including below or directed oth	or transmitting the ISS of the Patent, advance of derwise in Block 1, by (UE FEE and PUBLIC orders and notification (a) specifying a new c	CATIO of ma correspo	N FEE (if requiration of the contract of the c	red). Bl ill be n and/or	locks 1 through 5 sh nailed to the current (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
		ock 1 for any change of address)		Note: Fee(s) papers have i	A certificate of 1 Transmittal. This Each additional ts own certificate	mailing s certific paper, of mail:	can only be used for cate cannot be used for such as an assignment ing or transmission.	domestic mailings of the or any other accompanying at or formal drawing, must
4800 IDS CENTE 80 SOUTH 8TH 3	AR & CHRISTE		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmital is being deposited with the Unite States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FEE address above, or being facsimil transmitted to the USPTO (571) 273-2885, on the date indicated below.					
MINNEAPOLIS,	MN 55402-2100							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CON		CONFIRMATION NO.
10/586,315	07/14/2006		Yasunari Arai			2	2418.96US01	2568
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/09/2009
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LAWRENCE JE	R, FRANK M	1797	096-135000					
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required.	ess an assignee is identi in 37 CFR 3.11. Comp	' Indication form ed. Use of a Customer A TO BE PRINTED ON	•	single single sy or ago t attornill be proor type or type	ly, firm (having as a ent) and the name eys or agents. If r inted. ent. If an assigne signment.	membe es of up no name	entified below, the do	cument has been filed for
Please check the appropria	ate assignee category or	categories (will not be p	rinted on the patent):	☐ I	ndividual 🖵 Co	rporatio	on or other private gro	up entity 🚨 Government
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5. Change in Entity Statu	us (from status indicated SMALL ENTITY statu		☐ b. Applicant is no	o longe	er claiming SMAI	L ENT	ITY status. See 37 CF	R 1.27(g)(2).
	Publication Fee (if requ	uired) will not be accepte	ed from anyone other t					e assignee or other party in
Authorized Signature					Date			
Typed or printed name								
This collection of informal in application. Confidentium thing the completed his form and/or suggestion of the control of the	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain 1.14. This collection y depending upon the ne Chief Information COMPLETED FORM	n or ret is estin individ Officer,	ain a benefit by the nated to take 12 n lual case. Any con U.S. Patent and THIS ADDRESS	ne publication pub	c which is to file (and to complete, including on the amount of tin ark Office, U.S. Depa of TO: Commissioner f	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents P.O. Box 1450

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4800 IDS CENTE		ART UNIT	PAPER NUMBER		
80 SOUTH 8TH S MINNEAPOLIS,			1797 DATE MAILED: 12/08/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 451 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 451 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/586,315	ARAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Frank M. Lawrence	1797	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to the application filed July 2. The allowed claim(s) is/are 1, 2, 4-6, 9 and 10 (renumbered	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subjeand MPEP 1308. uly 14, 2006.	application. If not includation will be mailed in due	ed course. THIS
 3. Acknowledgment is made of a claim for foreign priority unall a) All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 	been received. been received in Application No	D	
3. Copies of the certified copies of the priority doc	cuments have been received in t	his national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submined in INFORMAL PATENT APPLICATION (PTO-152) which give some submined in the content of the content	itted. Note the attached EXAMINes reason(s) why the oath or decide to be submitted. on's Patent Drawing Review (Pas Amendment / Comment or in the header according to 37 CFR 1.1 sit of BIOLOGICAL MATERIA	IER'S AMENDMENT or Noteration is deficient. TO-948) attached TO-948 action of the front (not the late). AL must be submitted.	OTICE OF
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08),	5. Notice of Inform 6. Interview Summ Paper No./Mail 7. Examiner's Ame 8. Examiner's State 9. Other	nary (PTO-413), Date	owance

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DETAILED ACTION

Drawings

1. Figure 5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

- 2. Claims 1, 2, 4-6, 9 and 10 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to disclose or suggest a motivation for using the recited alternate adsorption membrane on the inner walls of the micropores of the fibers in combination with the other claimed structure. The closest prior art discloses a fuel cell intake filter (US 2003/0064271) including activated carbon fibers with a particle filter, and glass fibers (JP 2003-334229) coated with an alternate adsorption membrane. It is the examiner's opinion that one having ordinary skill in the art would not have been motivated to apply the JP '229 membrane to activated carbon fibers in a fuel cell intake filter because the membrane is used to enhance adsorption of smoke impurities and not air, and because there is no evidence or motivation to apply the membrane to activated carbon instead of the disclosed possible unrelated substrates.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional references listed on the attached PTO-892 disclose fuel cell filters and adsorption arrangments.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Frank M. Lawrence/ Primary Examiner, Art Unit 1797

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